

1 CLAIMS

2 1. A cellular phone comprising:
3 one or more processors configured to:
4 receive information that pertains to a current context of the cellular
5 phone;
6 determine the current context based on the information; and
7 modify at least one behavior of the cellular phone responsive to the
8 current context.

9
10 2. The cellular phone of claim 1 further comprising a context service
11 module that is configured to receive information from multiple different context
12 providers.

13
14 3. The cellular phone of claim 1, wherein the information pertains to a
15 user of the cellular phone.

16
17 4. The cellular phone of claim 1 further comprising one or more
18 hierarchical traversable tree structures on the phone, the tree structures comprising
19 individual nodes each of which being associated with a phone context, the
20 processors being configured to automatically determine a context by traversing at
21 least one node on one of the trees.

1 5. The cellular phone of claim 1 further comprising an application
2 program interface that is configured to wirelessly receive information that is
3 associated with the phone's context.

4
5 6. A method of operating a cellular phone comprising:
6 wirelessly receiving, with the cellular phone, information that pertains to a
7 context of the cellular phone;
8 responsive to said receiving, modifying at least one behavior associated
9 with the cellular phone.

10
11 7. The method of claim 6, wherein the behavior pertains to whether the
12 phone is on or off.

13
14 8. The method of claim 6, wherein the behavior pertains to operation of
15 a cellular phone ringer.

16
17 9. The method of claim 6, wherein the behavior pertains to whether the
18 cellular phone is in a vibration mode.

19
20 10. The method of claim 6, wherein the behavior pertains to a ringer
21 pitch.

22
23 11. The method of claim 6, wherein the behavior pertains to forwarding
24 calls.
25

1 12. The method of claim 6, wherein said modifying comprises using one
2 or more cellular phone settings that are resident on the cellular phone to modify
3 the cellular phone's settings.

4
5 13. The method of claim 6, wherein said receiving comprises receiving
6 cellular phone setting information that is to be used to modify the cellular phone's
7 behavior.

8
9 14. A cellular phone programmed to implement the method of claim 6.

10
11 15. One or more readable media having readable instructions thereon
12 which, when executed by a cellular phone, cause the cellular phone to:

13 wirelessly receive information that pertains to a context of the cellular
14 phone; and

15 responsive to receiving the information, modify at least one behavior
16 associated with the cellular phone.

17
18 16. A cellular phone embodying the computer-readable media of claim

19 15.

20
21 17. A cellular phone comprising:

22 one or more processors configured to:

23 receive information associated with a current location of the cellular
24 phone; and
25

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Cenc.

Bl.
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1 24. A cellular phone comprising:
2 receiving means configured to wirelessly receive information that pertains
3 to a current location of a cellular phone; and
4 means to modify at least one behavior associated with the cellular phone
5 responsive to said information.

6
7 25. The cellular phone of claim 24, wherein said information pertains to
8 cellular phone settings that are associated with the current location.

9
10 26. The cellular phone of claim 24, wherein said information pertains to
11 a defined location type of which the location is an instance.

12
13 27. The cellular phone of claim 24, wherein said means to modify
14 comprises means to change the cellular phone's behavior when it is no longer at
15 the current location.

16
17 28. A method of managing cellular phone behavior comprising:
18 defining one or more cellular phone behaviors for a given location; and
19 wirelessly transmitting information to cellular phones within that location
20 that permits cellular phones to automatically modify their behavior while in that
21 location.

1 29. The method of claim 28, wherein said transmitting information
2 comprises transmitting information that is associated with a location type that has
3 attributes that define a cellular phone behavior.

4
5 30. The method of claim 28, wherein said transmitting information
6 comprises transmitting information pertaining to cellular phone settings.

7
8 31. A method of managing cellular phone behavior comprising:
9 providing one or more transmitters that are configured to transmit
10 information that permits cellular phones to automatically modify their behavior;
11 placing the one or more transmitters in a location where a particular cellular
12 phone behavior is desired; and
13 transmitting information using said one or more transmitters.

14
15 32. The method of claim 31, wherein the behavior comprises whether
16 the cellular phone is on or off.

17
18 33. The method of claim 31, wherein the behavior pertains to the
19 cellular phone's ringer.

20
21 34. The method of claim 31, wherein the behavior pertains to the pitch
22 of the cellular phone's ringer.

1 **35.** The method of claim 31, wherein the behavior pertains to call
2 forwarding.

3
4 **36.** A method of managing cellular phone behavior comprising:
5 defining one or more class types each of which can be associated with a
6 location for which a particular cellular phone behavior is desired; and
7 associating attributes with the one or more class types, the attributes
8 defining cellular phone behavior.

9
10 **37.** The method of claim 36, wherein the behavior pertains to whether
11 the cellular phone is to be on or off.

12
13 **38.** The method of claim 36, wherein the behavior pertains to whether
14 the cellular phone's ringer is to be on or off.

15
16 **39.** The method of claim 36, wherein the behavior pertains to the pitch
17 of the cellular phone's ringer.

18
19 **40.** The method of claim 36, wherein the behavior pertains to
20 automatically forwarding telephone calls.

21
22 **41.** A method of managing cellular phone behavior comprising:
23 defining one or more class types each of which can be associated with a
24 location for which a particular cellular phone behavior is desired;
25

1 associating attributes with the one or more class types, the attributes
2 defining cellular phone behavior; and

3 associating a class type with a location for which a particular cellular phone
4 behavior is desired.

5
6 **42.** A method of managing cellular phone behavior comprising:

7 associating a class type with a location for which a particular cellular phone
8 behavior is desired, the class type having attributes that define the cellular phone's
9 behavior; and

10 wirelessly transmitting information pertaining to the class type for
11 reception by cellular phones in the location, the information being configured to
12 be used by cellular phones to automatically adjust one or more behaviors.

13
14 **43.** The method of claim 42, wherein said associating comprises
15 providing a transmitter at the location that is configured to transmit the
16 information.

17
18 **44.** The method of claim 42, wherein the behavior is defined by cellular
19 phone settings.

20
21 **45.** The method of claim 42, wherein the behavior pertains to whether
22 the cellular phone is on or off.
23
24
25

1 46. The method of claim 42, wherein the behavior pertains to whether
2 the cellular phone's ringer is on or off.

3
4 47. The method of claim 42, wherein the behavior pertains to call
5 forwarding.

6
7 48. A location-aware cell phone that can determine its location and
8 automatically adjust one or more of its settings so that it behaves in a manner that
9 has been defined for that location.

10
11 49. A method of operating a cellular phone comprising:
12 providing a cellular phone; and
13 determining, with the cellular phone, a present cellular phone location.

14
15 50. The method of claim 49, wherein said determining comprises:
16 receiving location information;
17 accessing one or more hierarchical tree structures having nodes that
18 correspond to locations; and
19 using the location information to traverse at least portions of the one or
20 more tree structures to ascertain the present location.